

Claims

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1. A coded signal reproduction apparatus comprising:
matching status information output means for detecting the matching status of a code which is input for every predetermined bit with a prefix code of a packet start code, and outputting matching status information of a head part of the packet start code; and

data format means for outputting predetermined data in accordance with the matching status information.

2. A coded signal reproduction apparatus as described in Claim 1 wherein the matching status information output means includes:

a head code detection unit for detecting the matching status of the head part of the packet start code at every predetermined bit from the input code sequence, and outputting matching information at the present point of time; and

a matching status historical information hold unit for receiving the matching information at the present point of time, and holding historical information of the matching status of the head code.

3. A coded signal reproduction apparatus as described in Claim 1 wherein the matching status information output means includes:

a head code detection unit for detecting the matching status of the head part of the packet start code at every predetermined

bit from the input code sequence, and outputting matching information at the present point of time; and

a matching status historical information hold unit for receiving the matching information at the present point of time, and holding historical information of the matching status of the head code; and

start code discrimination means for discriminating the packet start code by using the historical information and a packet start code identifier existing in the latter half part of the packet start code.

4. A coded signal reproduction apparatus as described in Claim 1 wherein the matching status information output means includes:

a head code detection unit for detecting the matching status of the head part of the packet start code at every predetermined bit from the input code sequence, and outputting matching information at the present point of time; and

a matching status historical information hold unit for receiving the matching information at the present point of time, and holding historical information of the matching status of the head code; and

a start code discrimination unit for discriminating a hierarchy start code of video data in accordance with the historical information and a video hierarchy identifier of coded video data which exists in a position corresponding to the latter

half part of the packet start code.

5. A coded signal reproduction apparatus as described in Claim 1 including header analysis means for analyzing the header of the packet to output reproduction information when the input code sequence is coded video data;

wherein the data format means inserts the reproduction information together with information indicating effectiveness of the reproduction information, in a predetermined position in the coded video data.

6. A coded signal reproduction apparatus as described in Claim 4 wherein said header analysis means includes a header analysis unit for analyzing the header of the packet and outputting the reproduction information, and a reproduction information hold unit for holding the reproduction information.

7. A coded signal reproduction apparatus as described in Claim 6 wherein said header analysis means is activated when the start code is identified.

8. A coded signal reproduction apparatus comprising:

end code sequence detection means for detecting, from code sequences of coded data, a code sequence indicating the end of the coded data; and

formatter means for adding a predetermined number of pseudo data to the rear of the code sequence indicating the end of the coded data so that the data bus width of pipeline transfer including the end of the coded data becomes equal to the bus width of pipeline transfer including other data, when a code sequence indicating the end of the code data is detected by the end code sequence detection means.

9. A coded signal reproduction apparatus as described in Claim 8 further including specific code sequence insertion means for inserting a specific code sequence in the last packet in a packet sequence before decoding,

wherein said formatter means adds a predetermined number of pseudo data to the rear of the specific code sequence.

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10. A coded signal reproduction apparatus as described in ~~any of~~
~~Claims 1 to 9~~ wherein the input code sequence is a coded and multiplexed signal in which audio, video, and reproduction information annexed thereto are multiplexed.

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SUMMARY

A formatter 2s13 is provided and, when a code sequence which matches a part ('00') of the head of a predetermined code sequence detected by a start code prefix detection unit 2s3, is detected, the start code prefix detection unit 2s3 detects the residual part ('00','00','01','E0') of the detected predetermined code sequence to detect a pattern of ('00','00','00'), and the formatter 2s13 outputs one ('00'). After the boundary of packets is defined, amongst data which are not transferred to a decoding buffer 2s9, data corresponding to code sequences other than the code sequence ('00','00','01','E0') indicating the packet boundary are output to the decoding buffer 2s9. Therefore, when separating a coded and multiplexed signal, control of an input buffer reading control circuit 2s4 is simplified, and thereby the hardware scale is reduced, resulting in an inexpensive apparatus for reproducing a digital code sequence.